# NEW TAXA AND KEY TO THE TRIBES AND GENERA IN TRIBELOCEPHALINAE STÅL 1866 (HETEROPTERA: REDUVIDAE)

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Abstract.—Xenocaucus China and Usinger 1949, is fixed as type of the new tribe Xenocaucini of Tribelocephalinae. Abelocephala, new genus, and A. thai, new species, is described from Thailand. Key to the tribes and genera in Tribelocephalinae is given. Tomolus Stål is redescribed, the holotype is fixed, and a paratype of Tomolus costalis redescribed.

Key Words: Reduviidae, Tribelocephalinae, Xenocaucini n. tribe, generic key

The Tribelocephalinae occur in the Oriental, Australian, and Ethiopian regions. It is a small group of medium sized, dull colored, nocturnal insects. They live among debris and in crevices (Villiers 1943). The fore wings are occupied mostly by the membrane, the clavus and the corium are small or poorly defined. Most genera have three-segmented tarsi. The genera *Apocacus* Distant, *Gastrogyrus* Bergroth and *Homognetus* Bergroth have two-segmented tarsi. *Xenocaucus* has one-segmented tarsi. Pilosity occurs in the Tribelocephalini in varying degrees and distribution, reaching its maximum in *Xenocaucus*.

Abelocephala thai new genus and species are described below. *Tomolus costalis* is redescribed and the holotype of the genus is fixed. The subfamily now contains 15 genera. The African *Tribelocephala* Stål, contains the largest number of species, and the Oriental *Opistoplatys* Westwood is the second largest.

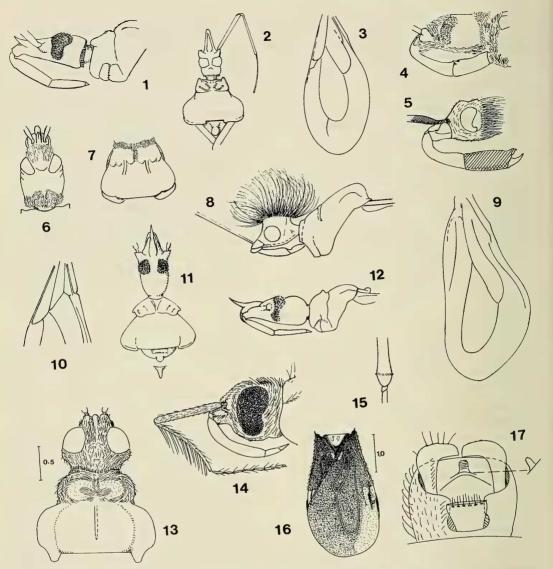
Villiers (1943) established Opisthoplatini and Tribelocephalini and keyed the species in *Afrodecius* Jeannel and *Tribelocephala*. China and Usinger (1949) (in my Catalogue to the World Reduviidae (1990: 569) I er-

roneously give China and Miller as authors) described *Xenocaucus mancini*, from Fernando Poo, but did not assign it to any tribe. Herein I establish Xenocaucini as a new tribe with *Xenocaucus* as the type. This is quite an aberrant genus, with several unique characters.

## KEY TO THE TRIBES AND GENERA IN TRIBELOCEPHALINAE

- Apterous, eyeless, tarsi one-segmented; first antennal segment, head and pronotum laterally thickly setose; I antennal segment broadly concave longitudinally (Fig. 44) Xenocaucini Maldonado new tribe . . . . . . . . . . . . . ..... Xenocaucus China and Usinger Winged, with eyes, tarsi two- or three-segmented; glabrous or less densely setose, with different distributional pattern; antennae cylindrical ..... Hemelytra with base of inner discal cell divided in two by cross vein m-cu, thus with well defined cubital cells (Figs. 10, 19, 36); tarsi three-segmented . . . Opistoplatyini Villiers Hemelytra with base of inner discal cell not divided in two by a cross vein, thus without basal cubital cells (Figs. 3, 9); tarsi three or two-segmented . . Tribelocephalini Villiers . . 6
- Scutellum triangular; posterior margin of head setose, setae extended laterally and then forward underneath to base of rostrum (Fig. 20) . . . . . . . . . . . . Distantus Villiers

_	Scutellum short, almost semicircular; posterior	<ul> <li>Anteocular region about half as long as post-</li> </ul>
	lobe of head glabrous or differently setose 4	ocular; eyes and antennae set forward; head
4.	Posterior lobe of head with margins curved	less than twice as long as wide, posterior lobe
	slightly to a very short neck hidden by pilos-	of head tapering backward to an exposed,
	ity; anterior lobe of pronotum semicircular,	long, collum
	with lateral angles elevated, located and pro-	12. Head with a membranous fringe at base above
	jected posteriorly (Fig. 11)	that extends laterally and then forward un-
	Centrogastrocoris Miller	derside (Fig. 21) to form what authors have
_	Posterior lobe of head with sinuous margins	mistaken with a rostral groove 13
	converging to a long neck; anterior lobe of	<ul> <li>Head without such membranous fringe 14</li> </ul>
	pronotum rectangular, antero-lateral angles	13. Anterior lobe of pronotum horizontal, without
	round, projected forward or laterad 5	tubercles; pronotum twice as wide basally as
5.	Tylus not projected; anterior lobe of pronotum	long Gastrogyrus Bergroth
	bigibbous; head twice as long as pronotum;	<ul> <li>Anterior lobe of pronotum sloped forward,</li> </ul>
	eyes dorsally 1/3 as long as postocular region	with 2+2 tubercles (Figs. 24, 25); pronotum
	(Fig. 33) Opistoplatys Westwood	slightly wider than long . Homognetus Bergroth
_	Tylus projected, slightly upcurved; lobules of	14. Head mostly glabrous, on lateral view about
	anterior lobe of pronotum slightly elevated;	half as high as long; anterior lobe of prono-
	head slightly longer than pronotum; eyes half	tum glabrous, with 1+1 small interlobular tu-
	as long as postocular region (Fig. 35)	bercles; rostrum thick, I rostral segment half
		as long as II (Fig. 26) Matangocoris Miller
6.	Head above with conspicuous thick clothing	- Head setose (Figs. 13, 14), on lateral view
	of long, erect pubescence (Fig. 30) 7	almost as high as long; pronotum without tu-
_	Head above glabrous or with short, fine, de-	bercles, anterior lobe setose; rostrum slender,
	cumbent pubescence 8	I rostral segment almost 3 times as long as II
7.	Vertex deeply sunken (Fig. 30), pubescence	(Fig. 14) . Abelocephala Maldonado new genus
	leaflet-like Megapocaucus Miller	Assistant Carrent and Carrent and
_	Vertex not sunken, pubescence fine (Fig. 8)	Annotated Checklist and Synonymy of
	Apocaucus Distant	Tribelocephalinae Genera
8.	Tylus projected upward or forward as a strong	Opistoplatyini Villiers
	spine, above or beyond apex of clypeus 9	OFISTOPLATTINI VILLIERS
-	Tylus blunt, not or slightly projected forward	Villiers A. 1943, 10: 9. New tribe, type <i>Op-</i>
		istoplatys. Centrogastrocoris Miller
9.	Anterior angles of pronotum projected for-	1958, 9: 37. Range—New Guinea, 2 spe-
	ward; tylus not surpassing base of clypeus;	cies. Emended name for <i>Centrogastocor</i> -
	antennophores not projected laterally (Figs. 1,	_
	2) Acanthorhinocoris Miller	is, Miller intended abdomen, i.e. gastro.
-	2)	is, Miller intended abdomen, i.e. gastro. Figs. 11–14. Fig. 11 is copied from Mil-
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Figs. 1–17. 1, 2, Acanthorhinocoris sp. 1, Head and pronotum, lateral view. 2, Head, pronotum and scutellum, dorsal view. 3–7, Afrodecius spp. 3, Hemelytron. 4, A. ghesquieri, head, lateral view. 5, A. lycoides, head, lateral view. 6, A. ghesquieri, head, dorsal view. 7, A. delamarei, pronotum, dorsal view. 8, 9, Apocaucus sinicus. 8, Head and pronotum, lateral view. 9, Hemelytron. 10–12, Centrogastrocoris sp. 10, Basal half of hemelytron. 11, Head, pronotum, scutellum, metascutellum, dorsal view. 12, Head, pronotum, scutellum, lateral view. 13–17, Abelocephala thai, male holotype. 13, Head and pronotum, dorsal view. 14, Head, lateral view. 15, Comb on protibia, lateral view. 16, Hemelytra. 17, external genitalic sclerites, dorsal view.

# Abelocephala Maldonado, New Genus

Type of genus Abelocephala thai Maldonado, new species.

Male—Head (Figs. 13, 14) slightly longer than wide, on lateral view almost as

high as long, subequal in length to pronotum, eyes large, reaching upper but not lower margin of head, first rostral segment reaching level of anterior margin of eye. Anterior lobe of pronotum slightly shorter and about  $\frac{4}{5}$  as wide as posterior, setose;

scutellum triangular; legs slender, posterior the longest; hemelytra without cubital cells (Fig. 16). Species small, under 4.10. Female unknown.

# Abelocephala thai Maldonado, New Species (Figs. 13–17)

Male—light gray due to its abundant gray pilosity, eyes gray; anterior lobe of pronotum covered with dense, silvery, fine setae; posterior lobe pale brown, legs brownish yellow; hemelytra: cell area dark brown, inner marginal area grayish, outer marginal area brownish-yellow, abdomen brown.

Head—length 0.65, width across eyes 0.6, interocular space 0.21; a false, round ocellar callus narrower than interocular space, interocular furrow poorly defined; wider behind eyes than across eyes, anterior lobe to interocular sulcus 0.25, posterior lobe 0.35 long. Antennal segments: I, 0.7; II, 0.75; III, and IV together 0.87, formed by 4 or 5 pseudosegments; I and last two segments short, decumbent setose, II segment long, vertical setose. Rostrum glabrous, length of segments: I, 0.6; II, 0.2; III, 0.12. Pronotum: length and width of anterior lobe 0.3 and 0.8, length and width of posterior lobe 0.40 and 1.05; anterior lobe with dense decumbent and vertical setae, partially hiding C-shaped glabrous 1+1 areas; hind lobe glabrous, polished. Scutellum triangular, with median sulcus, length 0.31, basal width 0.50, apex round, with vertical and decumbent setae. Meso- and metapleura densely setose. Margins of meso- and metasternum silvery setose. Seta of legs short, decumbent; protibia with a preapical whorl of minute spines (Fig. 15); lengths of femora 0.94, 0.81, 1.19, of tibiae 0.87, 0.87, 1.37; first tarsal segment very short, last two subequal; pairs of coxae separated from each other by at least a coxal width. Hemelytra venation as in Fig. 16; length 2.93, width 1.75, wider than abdomen, surpassing apex of abdomen by about 0.68. Abdomen oval, length 2.25, width 1.50; suture between metasternum and first abdominal sternum with compact, short, silvery setae; sutures between sterna obsolete. External genitalia as in figure 17. Overall length of body 3.93–4.06.

Holotype—male, THAILAND, Ratburi, 28.II.52, RE Elbel collector, in the National Museum of Natural History, Washington, D.C. Paratypes—2 males, same collecting data, one in JMC, the other in NMNH. Etymology—Abelocephalus means head without spines (belo), thai the place of collection.

Acanthorhinocoris Miller 1940, 18: 432. Oriental, monotypic. Figs. 1, 2.

Afrodecius Jeannel 1919, 3: 165. Range—African, 8 species. Figs. 3–7.

Apocaucus Distant 1909, 3: 507. Range—India, China. Figs. 8–10.

Gastrogyrus Bergroth 1921, 1: 69. This genus and *Homognetus* have been described erroneously as having transparent, tingid-like bucculae. See couplets 3 and 12 of key for correct interpretation of this character. Range—Borneo, monotypic. Figs. 21–23.

Homognetus Bergroth 1923, 3: 18. Range—Borneo, monotypic. Illustrated for the first time in Figs. 24, 25.

Matangocoris Miller 1940, 18: 430. Range—Sarawak, monotypic. Figs. 26–29.

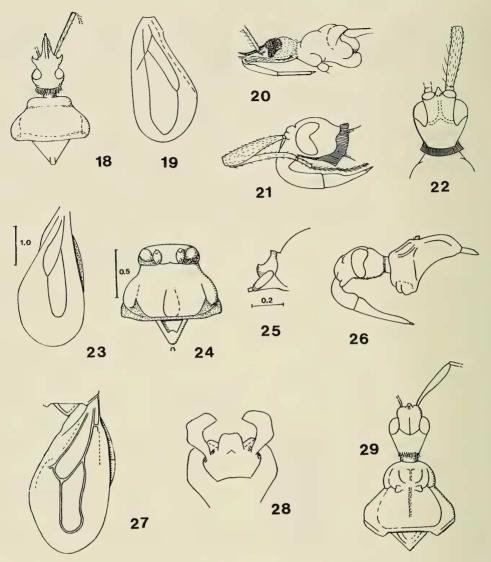
Megapocaucus Miller 1954, 10: 1. Range— Java, monotypic. Figs. 30–32.

### Tomolus Stål 1874

Stål 1874, 4: 90. From Sumatra, monotypic. Illustrated for the first time in Figs. 38–41.

Redescription of female paratype—head grayish; appendages, connexivum above, posterior lobe of pronotum and costal margin of hemelytra brownish yellow (Stål: "flavescente ferrugineo"); anterior lobe of pronotum brown, mesopleura and abdominal sterna dark brown; hemelytra blackish mostly, margined with brownish yellow.

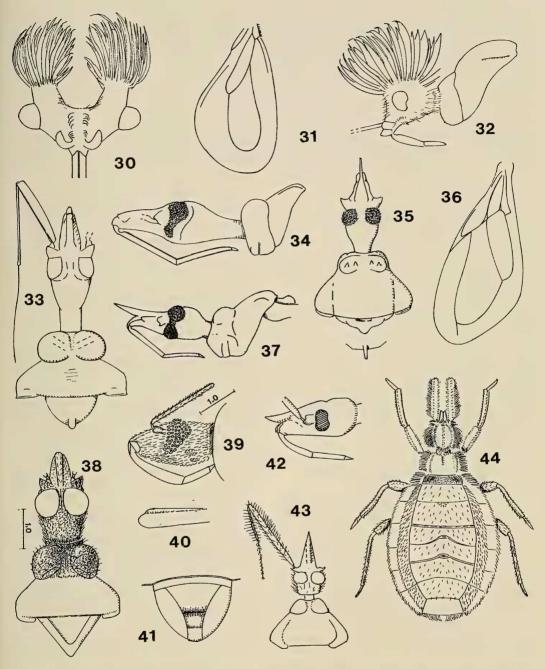
Head (Figs. 38, 39): decumbent short setose, ventrolaterally behind eyes with two



Figs. 18–29. 18–20, *Distantus oculatus*. 18, Head, pronotum, scutellum dorsal view. 19, Hemelytron. 20, Head, pronotum, lateral view. 21–23, *Gastrogyrus monophleboides*. 21, Head, lateral view. 22, Head, dorsal view. 23, Hemelytron. 24, 25, *Homognetus nigripennis*. 24, Pronotum, scutellum, metascutellum, dorsal view. 25, Anterior lobe of pronotum, lateral view. 26–29, *Matangocoris barbatus*. 26, Head, pronotum, scutellum, lateral view. 27, Hemelytron. 28, Genital capsule, dorsal, view. 29, Head, pronotum, scutellum, dorsal view.

bare, oval areas (represented by stippling in Fig. 39), length 1.87, width across eyes 1.12, interocular space 0.12, antennophores not projected laterally, anteocular space to apex of antennophore 0.32, anteocular lobe to apex of head 0.87, postocular space 0.43, basal margin in contact with pronotum; eyes slightly surpassing upper margin of head, not reaching lower margin by a ros-

tral thickness, height of eye 1.12. Antennal segments: I, 2.00; II, 2.12; III and IV missing, very short, fine, decumbent setose. Rostral segments: I, 1.50; II, 0.62; III, 0.18; glabrous. Pronotum: anterior lobe length 0.75, width 1.56, moderately setose, bigibbous, each half with 2 bare sulci; posterior lobe length 1.12, width 2.50, glabrous, smooth, posterior margin receded above



Figs. 30–44. 30–32, *Megapocaucus laticeps*. 30, Head, frontal view. 31, Hemelytron. 32, Head, pronotum, lateral view. 33, 34, *Opistoplatys* sp. 33, Head, pronotum, scutellum, dorsal view. 34, Head, pronotum, lateral view. 35–37, *Plectophorocoris gracilis*. 35, Head, pronotum, scutellum, metascutellum, dorsal view. 36, Hemelytron. 37, Head, pronotum, scutellum, lateral view. 38–41, *Tomolus costalis*, female lectotype. 38, Head, pronotum, scutellum, dorsal view. 39, Head, lateral view, genital segments, caudal. 40, Apical carina of protibia, lateral view. 41, Genital sclerites, caudal view. 42, 43, *Tribelocephala* spp. 42, *T. boschjesmana*, head, lateral. 43, *T.* sp. head, pronotum, dorsal view. 44, *Xenocaucus mancinii*, habitus.

scutellum. Scutellum triangular, width 1.37, length 1.12. Legs linear; lengths (from anterior to posterior): coxae 0.75, 0.75, 0.68, hind pair contiguous; trochanters 0.68, 0.68, 0.62; femora 2.81, 3.12, 3.93; tibiae 3.00, 2.87, 4.50, fore tibia with longitudinal keel along apical ½ (Fig. 40); tarsi 3-segmented, total lengths 0.12, 0.87, 0.87; claws thin, slightly thickened basally, 1.5 times thickness of tarsi. Hemelytra reaching apex of abdomen, without basal cells, width 4.00, not 2.50 as in Stål's description. Abdomen length 7.75, sparsely decumbent setose. Genital segments as in Fig. 41. Overall length 11.0.

Material examined: Female paratype described has handwritten label "Battavia, BRUMANA," in National Natuurhistorische Museum, Leiden, Nederland. The holotype most probably is the female, with very similar appearance, not as well preserved as the described paratype, 14.00 long, 5.00 mm wide, from Gunung, Singgalang, SUMATRA, also deposited in Leiden. Both have identical external genitalia. *Tribelocephala* Stål 1853, 10: 263. Range—African, Oriental. 68 species. Figs. 42, 43.

## Xenocaucini Maldonado New Tribe

Xenocaucus China and Usinger 1949, 64: 43. Type of tribe. Range—Ethiopian. 2 species. Fig. 44.

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